LISTING OF THE CLAIMS

This listing of the claims is provided for the benefit of the Examiner:

- (previously presented): An induction heating system, comprising:
 a portable power source electrically coupleable to a fluid-cooled induction heating
 cable to produce a varying magnetic field;
 - a portable, programmable power source controller; and
- a portable cooling unit fluidically coupleable to the fluid-cooled induction heating cable to cool the fluid-cooled induction heating cable.
- 2. (previously presented): The system as recited in claim 1, comprising a flexible fluid-cooled induction heating cable.
- 3. (previously presented): The system as recited in claim 1, wherein the fluid-cooled induction heating cable is coupled via connector assemblies to the portable power source and portable cooling unit.
- 4. (original): The system as recited in claim 3, wherein the portable power source controller is operable to control power from the power source to produce a desired temperature profile in the workpiece.
- 5. (original): The system as recited in claim 2, wherein the induction heating system is operable to preheat a workpiece before welding and to relieve stress from the workpiece after welding.
- 6. (original): The system as recited in claim 1, comprising a wheeled cart, wherein the power source and cooling unit are disposed on the wheeled cart.

- 7. (original): The system as recited in claim 6, wherein the power source controller is disposed on the wheeled cart.
- 8. (original): The system as recited in claim 1, comprising a temperature feedback device operable to provide an electrical signal representative of workpiece temperature.

9-46. (cancelled):

- 47. (original): A portable heating system, comprising:
- a power source operable to apply power to heat a workpiece;
- a power source controller operable to control the heating of a workpiece in response to programming instructions provided by a user to produce a desired temperature profile in the workpiece; and

a cart operable to transport the power source and power source controller to the workpiece.

- 48. (original): The system as recited in claim 47, wherein the system is an induction heating system.
- 49. (original): The system as recited in claim 47, comprising a fluid-cooled induction heating cable.
- 50. (original): The system as recited in claim 47, comprising a cooling unit operable to provide a flow of cooling fluid, the cooling unit being disposed on the cart.
- 51. (original): The system as recited in claim, 47, comprising a temperature feedback device operable to produce a signal representative of workpiece temperature to the power source controller.

- 52. (original): The system as recited in claim 47, wherein the power source controller uses PID control.
- 53. (original): The system as recited in claim 47, wherein the power source controller uses PI control.
- 54. (original): The system as recited in claim 47, wherein the system is operable to raise the temperature of a workpiece to a first temperature and lower the temperature of the workpiece from the first temperature to a second temperature at a desired rate.
- 55. (original): The system as recited in claim 47, comprising an insulation blanket having a visible line to enable the insulation blanket to be aligned with a weld joint.
 - 56. (cancelled):
- 57. (previously presented): An induction heating system, comprising: a portable power source electrically coupleable to a portable fluid-cooled induction heating cable to produce a varying magnetic field;
- a portable programmable controller operable to control induction heating; and a portable cooling unit fluidically connected to the portable fluid-cooled induction heating cable to cool the fluid-cooled induction heating cable.
- 58. (previously presented): The system as recited in claim 57, wherein the portable programmable controller comprises a plurality of visual indicators.

- 59. (previously presented): The system as recited in claim 57, wherein the fluid-cooled induction heating cable is connected via connector assemblies to the portable power source and portable cooling unit.
- 60. (previously presented): The system as recited in claim 57, wherein the portable programmable controller is operable to control induction heating to produce a desired temperature profile in a workpiece.
- 61. (previously presented): The system as recited in claim 57, wherein the induction heating system is operable to preheat a workpiece before welding and to relieve stress from the workpiece after welding.
- 62. (previously presented): The system as recited in claim 57, comprising a wheeled cart, wherein the power source and cooling unit are disposed on the wheeled cart.
- 63. (previously presented): The system as recited in claim 62, wherein a portable programmable controller is disposed on the wheeled cart.
- 64. (previously presented): The system as recited in claim 57, comprising a temperature feedback device operable to provide an electrical signal representative of a workpiece temperature.
- 65. (previously presented): The system, as recited in claim 64, wherein the electrical signal representative of the workpiece temperature from the temperature feedback device is sent to the programmable controller.
- 66. (previously presented): The system as recited in claim 57, wherein the programmable controller uses proportional-integral-derivative (PID) control.

- 67. (previously presented): The system as recited in claim 57, wherein the programmable controller uses proportional-integral (PI) control.
 - 68. (previously presented): A portable induction heating system, comprising: a power source operable to apply power to inductively heat a workpiece;

a temperature controller operable to control the induction heating of the workpiece in response to programming instructions provided by a user to produce a desired temperature profile in the workpiece; and

a cart operable to transport the power source and temperature controller to the workpiece.

- 69. (previously presented): The system as recited in claim 68, wherein the temperature profile is configured for post-weld stress relief of the workpiece.
- 70. (previously presented): The system as recited in claim 68, comprising a fluid-cooled induction heating cable.
- 71. (previously presented): The system as recited in claim 68, comprising a cooling unit operable to provide a flow of cooling fluid, the cooling unit being disposed on the cart.
- 72. (previously presented): The system as recited in claim, 68 comprising a temperature feedback device operable to produce a signal representative of workpiece temperature to the temperature controller.
- 73. (previously presented): The system as recited in claim 68, wherein the temperature controller uses proportional-integral-derivative (PID) control.

- 74. (previously presented): The system as recited in claim 68, wherein the temperature controller uses proportional-integral (PI) control.
- 75. (previously presented): The system as recited in claim 68, wherein the system is operable to raise the temperature of a workpiece to a first temperature and lower the temperature of the workpiece from the first temperature to a second temperature at a desired rate.
- 76. (previously presented): The system as recited in claim 68, comprising an insulation blanket having a visible line to enable the insulation blanket to be aligned with a weld joint.
- 77. (previously presented): The system as recited in claim 70, wherein the fluid-cooled induction heating cable is connected via connector assemblies to the portable power source.
- 78. (previously presented): The system as recited in claim 71, wherein a fluid-cooled induction heating cable is connected via connector assemblies to the portable cooling unit.
- 79. (previously presented): An induction heating system, comprising: a portable power source electrically coupleable to a fluid-cooled induction heating cable to produce a varying magnetic field;

a portable programmable power source controller; and

a portable cooling unit fluidically connected to the fluid-cooled induction heating cable to cool the fluid-cooled induction heating cable.

- 80. (previously presented): The system as recited in claim 79, comprising a flexible fluid-cooled induction heating cable.
- 81. (previously presented): The system as recited in claim 79, wherein the fluid-cooled induction heating cable is coupled via connector assemblies to the portable power source and portable cooling unit.
- 82. (previously presented): The system as recited in claim 79, wherein the portable programmable power source controller is operable to control power from the power source to produce a desired temperature profile in the workpiece.
- 83. (previously presented): The system as recited in claim 79, wherein the induction heating system is operable to preheat a workpiece before welding and relieve stress from the workpiece after welding.
- 84. (previously presented): The system as recited in claim 79, comprising a wheeled cart, wherein the power source and cooling unit are disposed on the wheeled cart.
- 85. (previously presented): The system as recited in claim 79, wherein a portable power source controller is disposed on the wheeled cart.
- 86. (previously presented): The system as recited in claim 79, comprising a temperature feedback device operable to provide an electrical signal representative of workpiece temperature.
 - 87 (previously presented): A portable heating system, comprising: a power source operable to apply power to heat a workpiece;

a controller operable to control the heating of the workpiece in response to programming instructions for producing a desired temperature profile in the workpiece; and

a cart operable to transport the power source and controller to the workpiece.

- 88. (previously presented): The system as recited in claim 87, wherein the system is an induction heating system.
- 89. (previously presented): The system as recited in claim 87, comprising a fluid-cooled induction heating cable.
- 90. (previously presented): The system as recited in claim 87, comprising a cooling unit operable to provide a flow of cooling fluid, the cooling unit being disposed on the cart.
- 91. (previously presented): The system as recited in claim 87, comprising a temperature feedback device operable to produce a signal representative of workpiece temperature to the controller.
- 92. (previously presented): The system as recited in claim 87, wherein the controller uses proportional-integral-derivative (PID): control.
- 93. (previously presented): The system as recited in claim 87, wherein the controller uses proportional-integral (PI): control.
- 94. (previously presented): The system as recited in claim 87, wherein the controller is operable to raise the temperature of a workpiece to a first temperature and lower the temperature of the workpiece from the first temperature to a second temperature at a desired rate.